

UT-1 Disposal Issue

- Comparison of NWEDC permitted area & Existing Submitted Drawings & Current disposal area

NWEDC

Submitted
Drawing
Current
Disposal



OE 지적사항



Disposal 영역 밖 Muck
에 대하여 Solution 제공
필요

OE Comment



Need to provide
solution for Muck
outside Disposal area

DISPOSAL-1 PLAN VIEW 1:2000



NOTE

Disposal 1
Disposal 2
Disposal 3
Disposal 4
Disposal 5
Disposal 6
Disposal 7
Disposal 8
Disposal 9
Disposal 10
Disposal 11
Disposal 12
Disposal 13
Disposal 14
Disposal 15
Disposal 16
Disposal 17
Disposal 18
Disposal 19
Disposal 20
Disposal 21
Disposal 22
Disposal 23
Disposal 24
Disposal 25
Disposal 26
Disposal 27
Disposal 28
Disposal 29
Disposal 30
Disposal 31
Disposal 32
Disposal 33
Disposal 34
Disposal 35
Disposal 36
Disposal 37
Disposal 38
Disposal 39
Disposal 40
Disposal 41
Disposal 42
Disposal 43
Disposal 44
Disposal 45
Disposal 46
Disposal 47
Disposal 48
Disposal 49
Disposal 50
Disposal 51
Disposal 52
Disposal 53
Disposal 54
Disposal 55
Disposal 56
Disposal 57
Disposal 58
Disposal 59
Disposal 60
Disposal 61
Disposal 62
Disposal 63
Disposal 64
Disposal 65
Disposal 66
Disposal 67
Disposal 68
Disposal 69
Disposal 70
Disposal 71
Disposal 72
Disposal 73
Disposal 74
Disposal 75
Disposal 76
Disposal 77
Disposal 78
Disposal 79
Disposal 80
Disposal 81
Disposal 82
Disposal 83
Disposal 84
Disposal 85
Disposal 86
Disposal 87
Disposal 88
Disposal 89
Disposal 90
Disposal 91
Disposal 92
Disposal 93
Disposal 94
Disposal 95
Disposal 96
Disposal 97
Disposal 98
Disposal 99
Disposal 100

MEASUREMENTS ARE IN METERS (M) UNLESS
OTHERWISE NOTED IN NOTES
1:400000 AND 1:50000
ELEVATION IS FINISHED ELEVATION
AGC SYSTEM SHOULD BE MAINTAINED AT 100%
DRAINAGE
DRAINAGE SYSTEMS SHOULD BE
OLD AND CONSISTENT WITH SOIL
TYPE
LOCATION OF RETAINING STRUCTURES DEPEND
ON CONSTRUCTION AND ON AS DIRECTED BY THE
DESIGNER
DRAINAGE AND DRAINAGE SIZE WILL BE
DESIGNED BY THE DESIGNER

Flow Direction

Slope

Contour

Disposal Area Boundary

Scale:

0 20 40 60 80 100m

1:2000

REFERENCE DRAWINGS

UT-1-1900-1, 2001

Local Study Of Headrace Tunnel

SYMBOL AND LEGEND

FOR INFORMATION

THE DRAWING AND THE INFORMATION CONTAINED HEREIN ARE PREPARED FOR INFORMATION
ONLY AND ARE NOT TO BE USED FOR ANY OTHER PURPOSES WITHOUT THE WRITTEN
CONSENT OF THE DESIGNER. THE DESIGNER SHALL BE RESPONSIBLE FOR THE
ACCURACY OF THE INFORMATION CONTAINED HEREIN.

| NO. | DATE | DESCRIPTION | DESIGNER | CHECK | APPROVE |
|-----|-------------|-----------------|----------|-------|---------|
| 1 | 10 FEB 2011 | AS PER 10-10-10 | DESIGNER | CHECK | APPROVE |
| 2 | 10 FEB 2011 | AS PER 10-10-10 | DESIGNER | CHECK | APPROVE |
| 3 | 10 FEB 2011 | AS PER 10-10-10 | DESIGNER | CHECK | APPROVE |

PROJECT TITLE

Upper Trishuli-1 HEP (216MW)

DESIGNER

NWEDC

CONTRACTOR

TRACER

DOOSAN Enerbility

DISPOSAL-1
LAYOUT PLAN

UT-1-C-870-CVL-06-80052

1 OF 2

Need to
remove
trees and
soil



Disposal
area
extended
to
Disposal 2

Need to
remove
trees and
soil

The
Disposal
area
reaches
the river
boundary

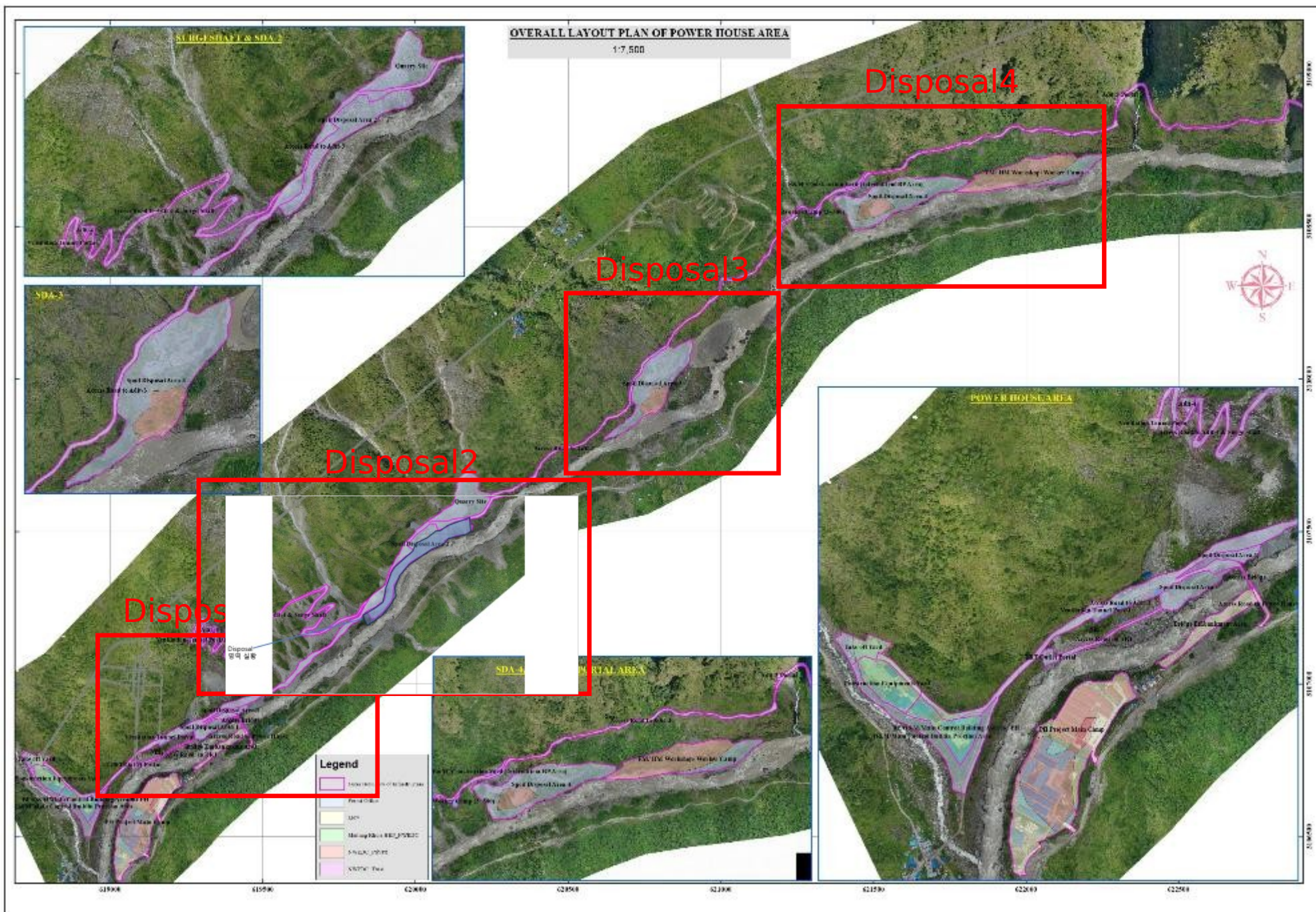
End of
Disposal
Area

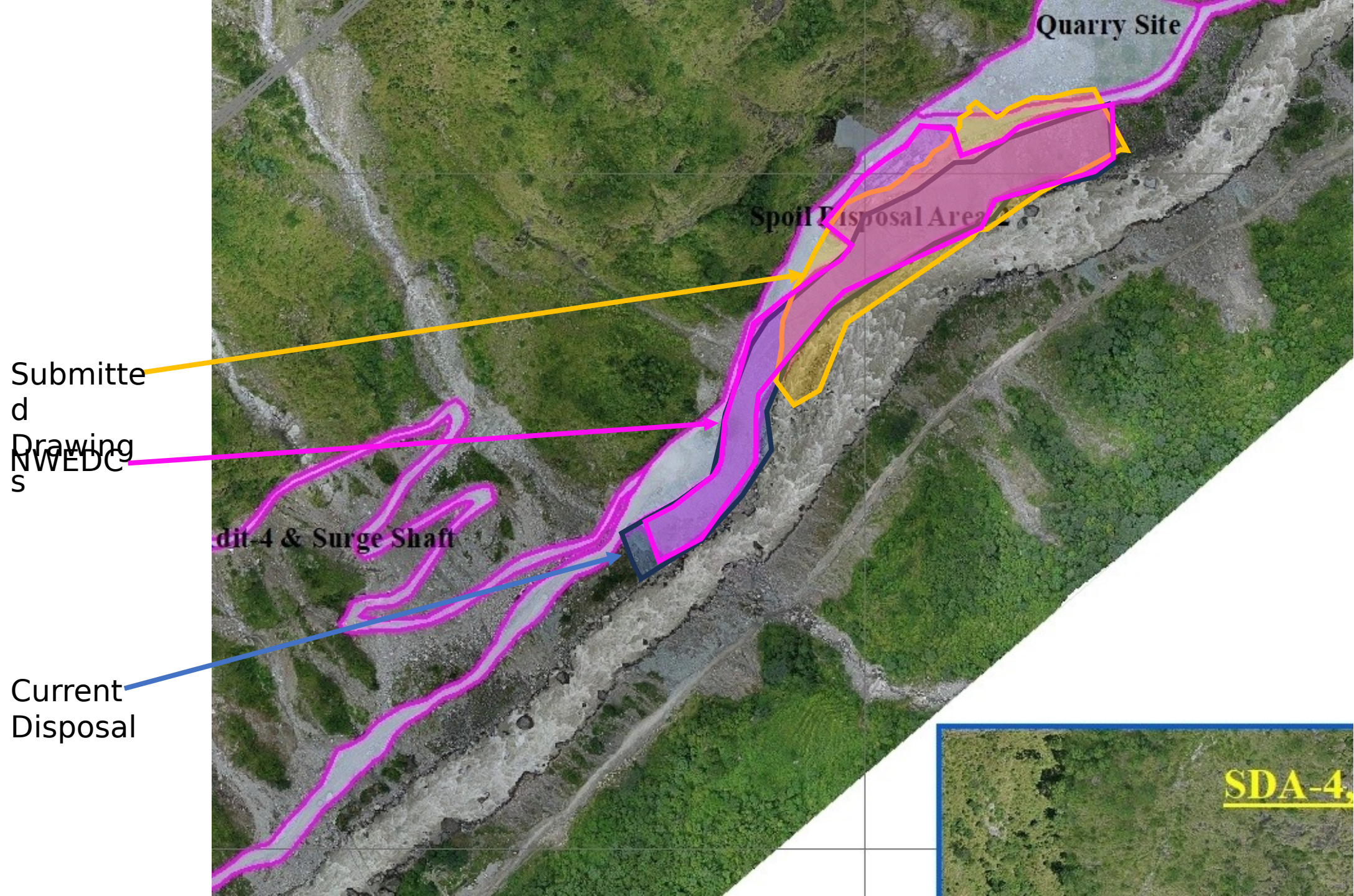


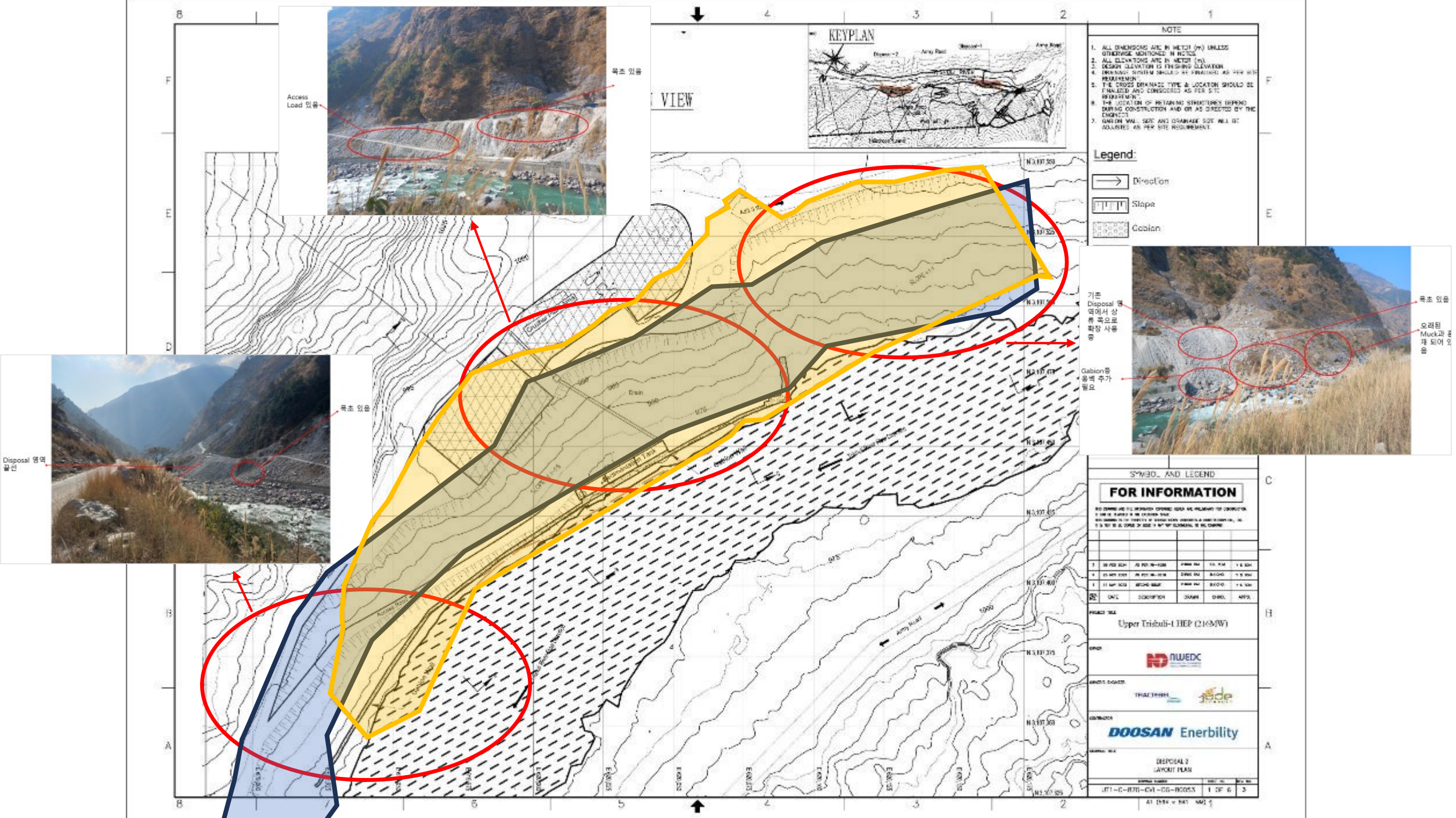
There are
some
muck, but
there are
also trees
and grass

Old muck
and recent
muck are
mixed
together

Temporary
Access Roads
for Bridge Pier
Construction
(OE







| SYMBOL AND LEGEND FOR INFORMATION | | | | | |
|--|-----------|--|--|--|--|
| ALL DIMENSIONS ARE IN METERS (M) UNLESS OTHERWISE NOTED IN NOTES. ALL ELEVATIONS ARE IN METERS (M). DESIGN ELEVATION IS FINISHING ELEVATION. DRAINAGE SYSTEM SHOULD BE DESIGNED AS PER SITE REQUIREMENT. THE CROSS DRAINAGE TYPE & LOCATION SHOULD BE FINALIZED AND CONSIDERED AS PER SITE REQUIREMENT. THE LOCATION OF RETAINMENT STRUCTURES (GABION) DURING CONSTRUCTION AND ON AS DIRECTED BY THE ENGINEER. UNDER WALL, SET AND DRAINAGE SITE WILL BE ADJUSTED AS PER SITE REQUIREMENT. | | | | | |
| → | Direction | | | | |
| ▨ | Slope | | | | |
| ▨ | Gabion | | | | |
| PROJECT TITLE Upper Tribeni-1 DDP (210MW) | | | | | |
| CLIENT | | | | | |
| DESIGNER | | | | | |
| CONTRACTOR | | | | | |
| DRAWING TITLE DISPOSAL 2 LAYOUT PLAN | | | | | |
| DRAWING NUMBER JT1-C-870-CV-00-00003 | | | | | |
| DATE AT 15/04/2021 | | | | | |

Access
Road

Need to
remove
grass and
soil



Extension
from old
Disposal
area

Need to
remove
grass and
soil

Old muck
and
recent
muck are
mixed
together

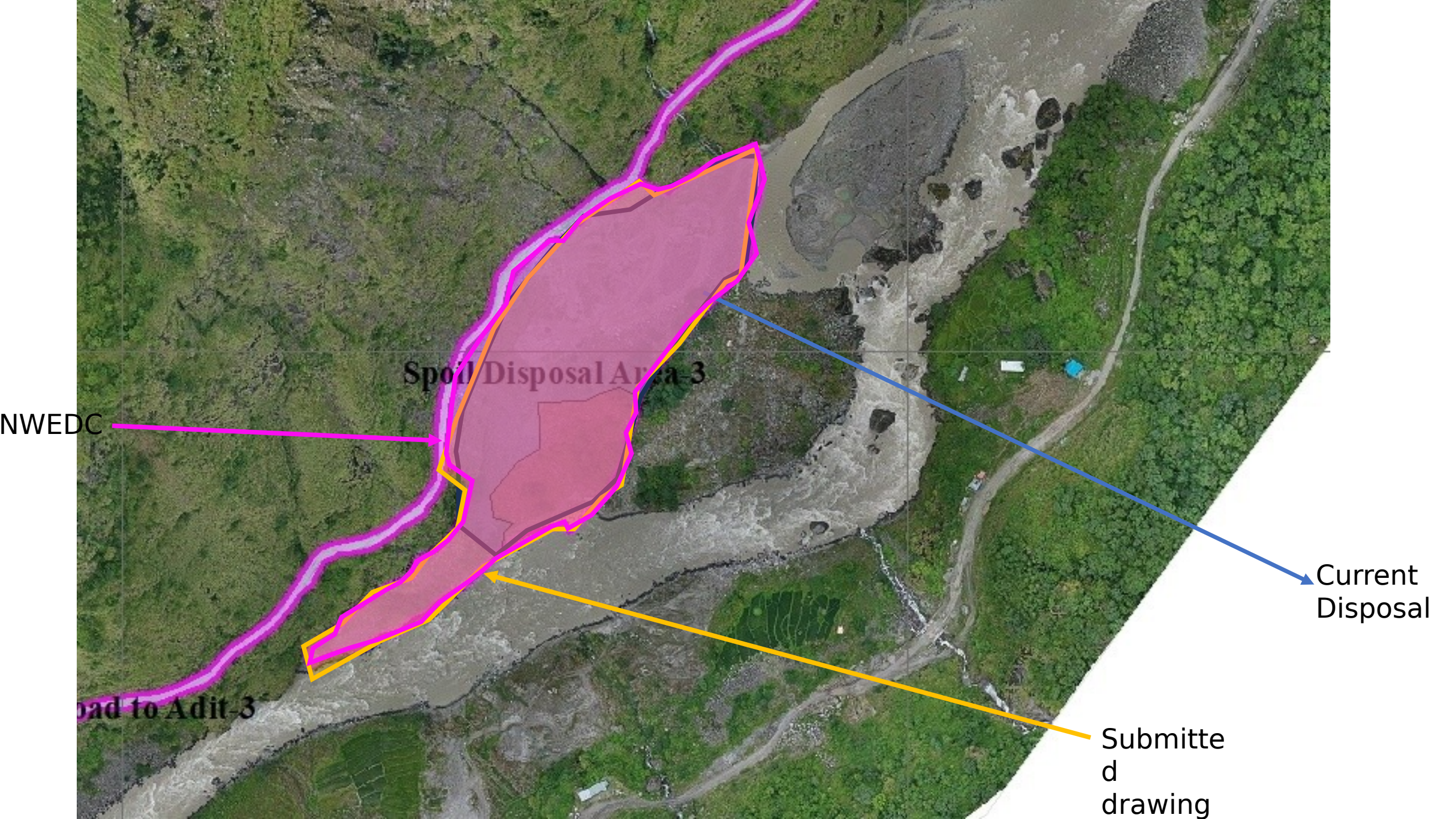
Need to
add
retaining
wall such
as Gabion



End of
disposal
area



Need to
remove
grass and
soil



Spill Disposal Area-3

NWEDC

oad to Adit-3

Current
Disposal

Submitte
d
drawing

Flow Direction
 Slope
 Contour
 Road Network
 Water Body
 Building Footprint
 Dissected Area Boundary

[illegible]



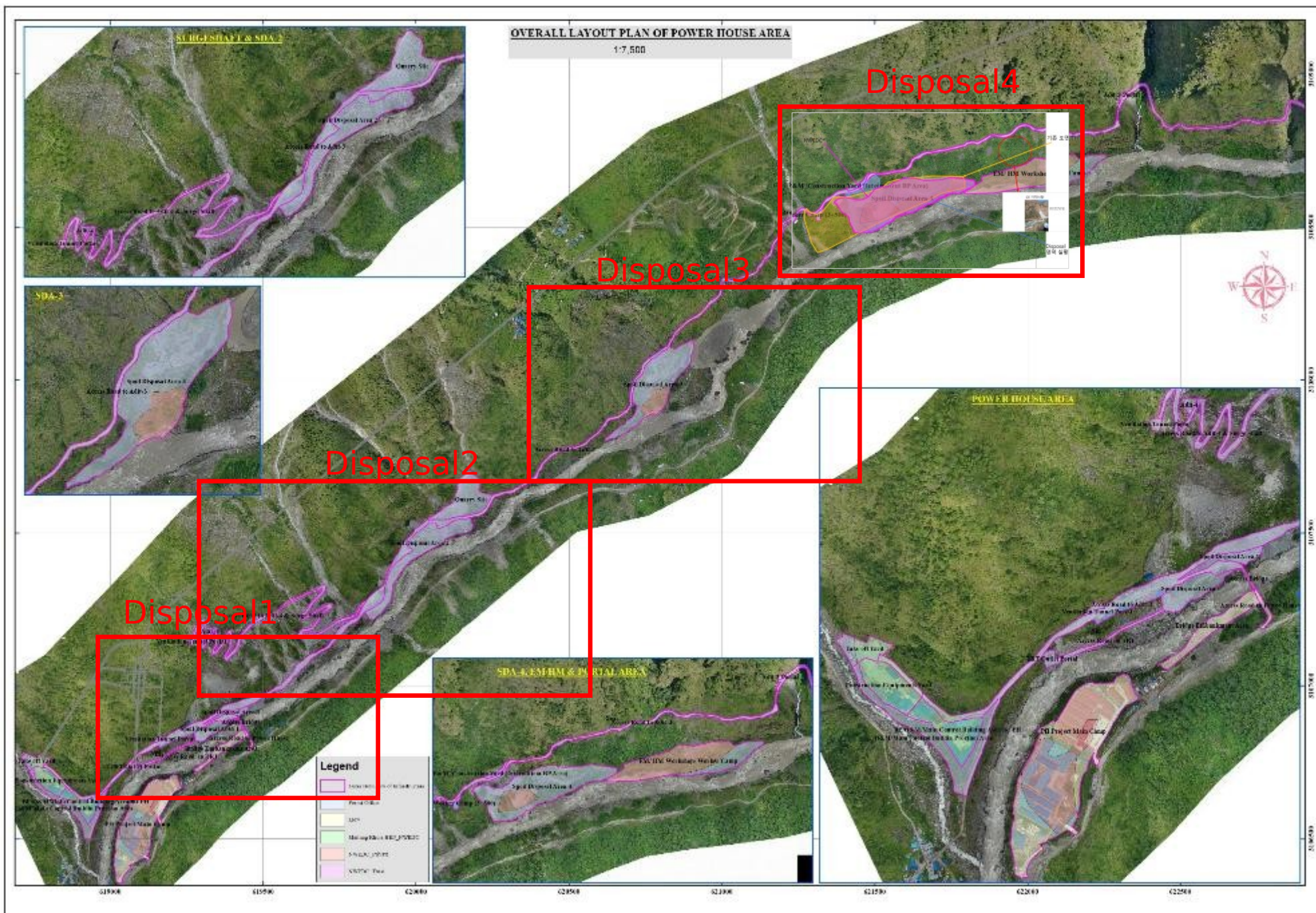
Access Road

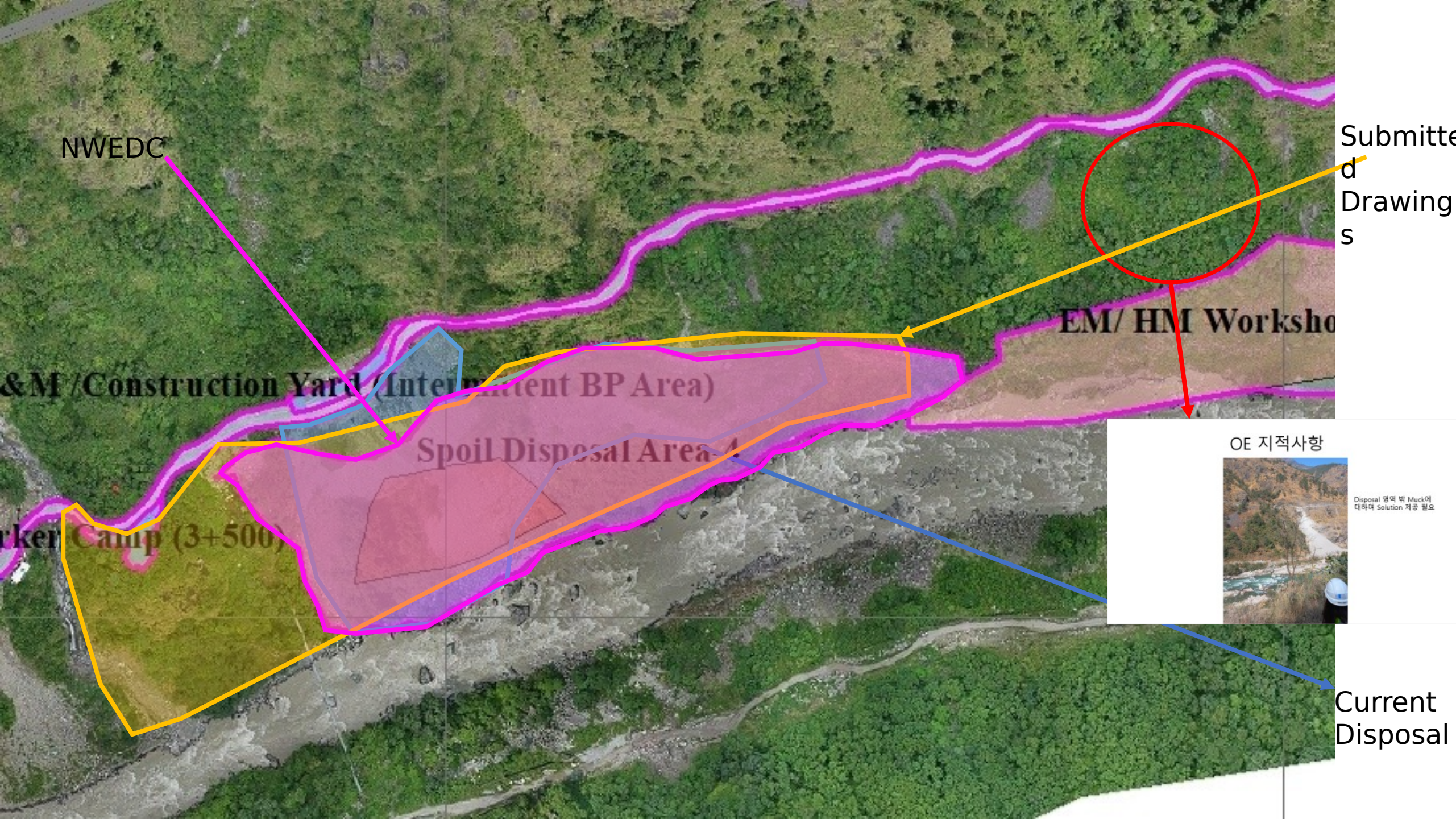
Small
waterfalls
during the
rainy season
Access Roads
exist for sand
collection by
local residents
(Inundation
during the
rainy season)



Trees and
grass

The Disposal
area reaches
the river
boundary





NWEDC

Submitted
Drawing
s

EM/ HM Workshop

&M / Construction Yard (Intermittent BP Area)

Spoil Disposal Area 4

Worker Camp (3+500)

OE 지적사항



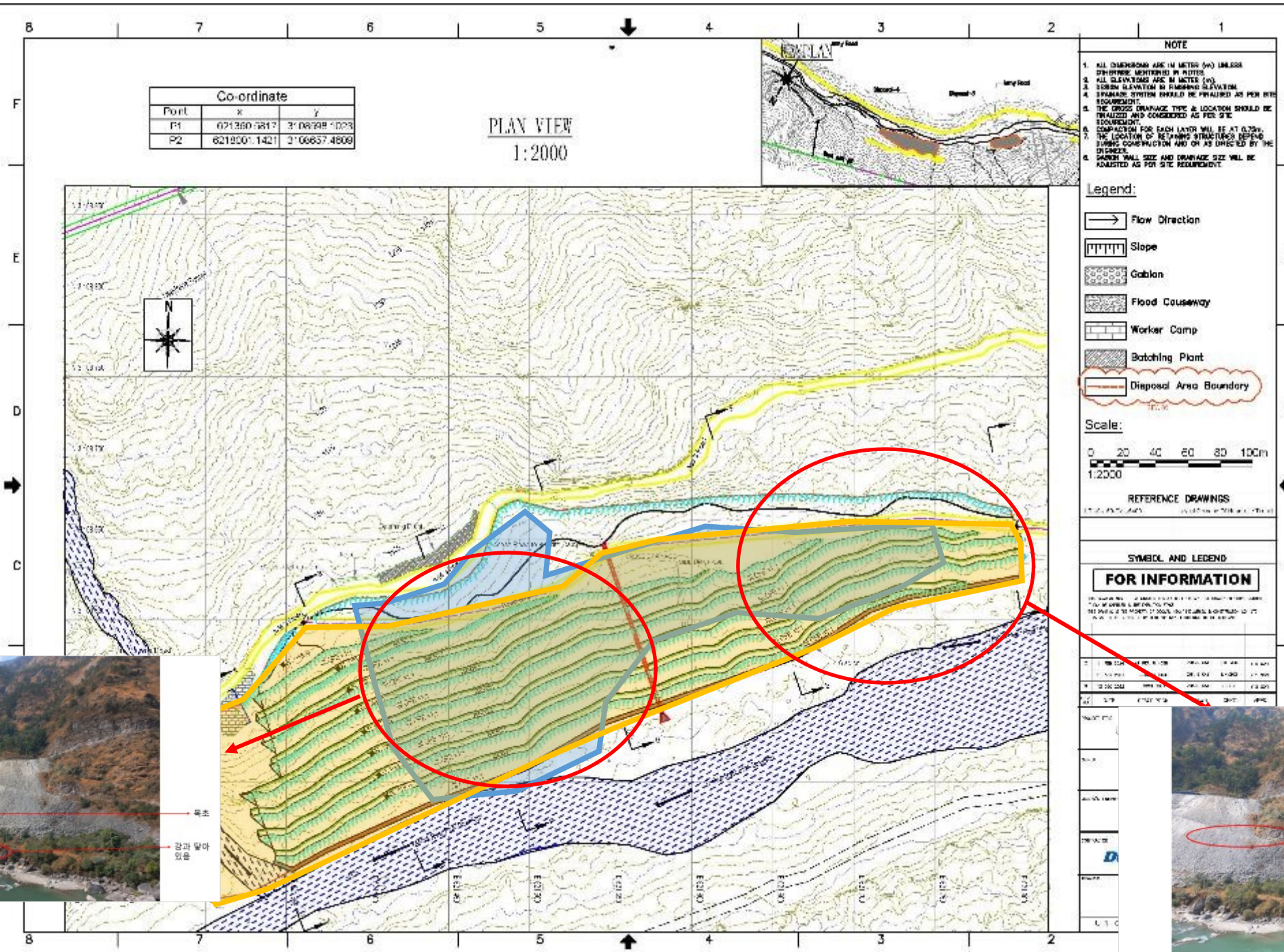
Disposal 영역 밖 Muck에
대하여 Solution 제공 필요

Current
Disposal

OE Comment



Need to provide
solution for Muck
outside disposal area





Access Road

Need to
remove grass
and soil



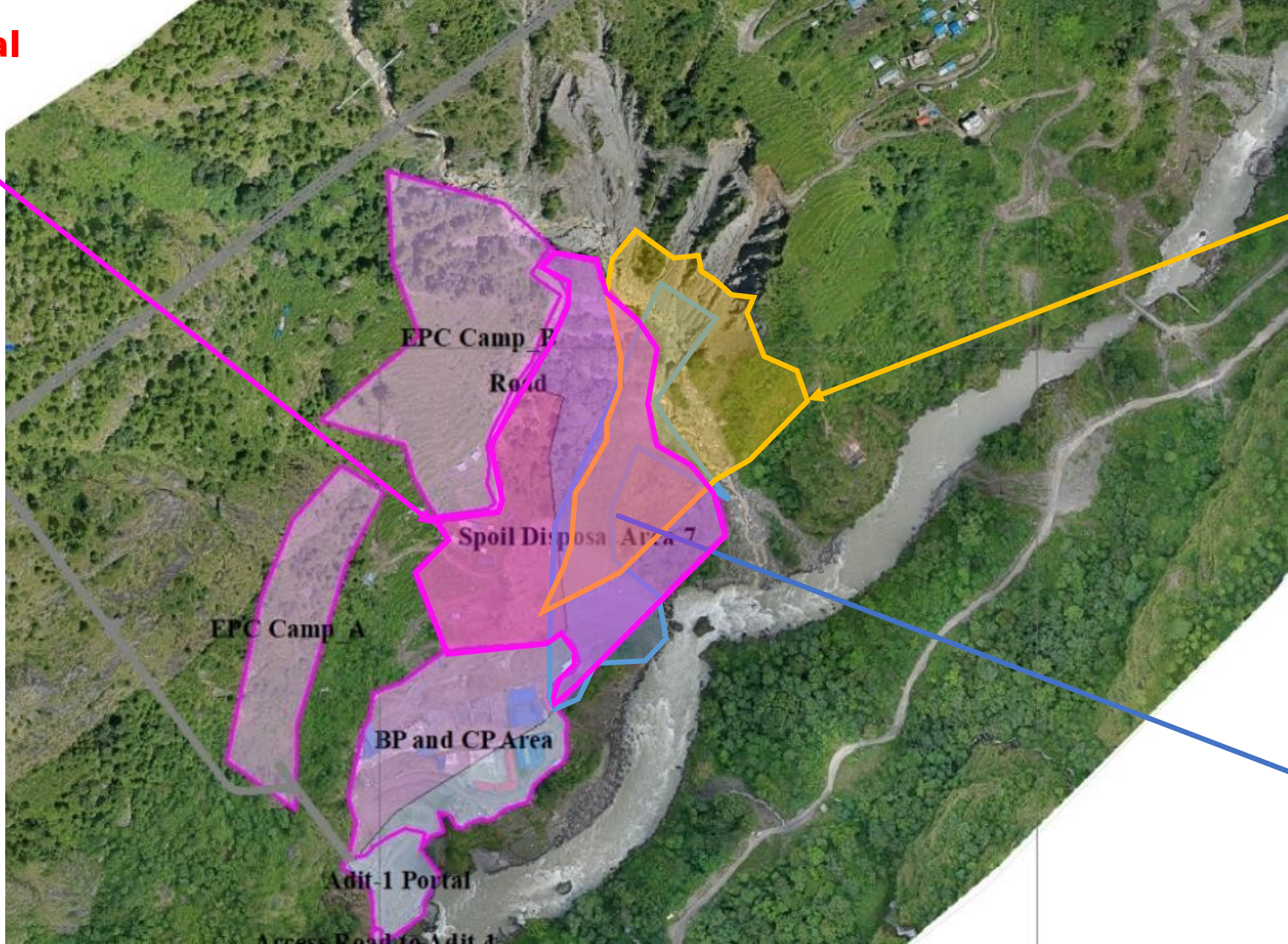
Need to
remove grass
and soil

The Disposal
area reaches
the river
boundary

**Disposal
7**

NWEDC

Submitted
Drawing
s



EPC Camp B
Road

Spoil Disposal Area 7

EPC Camp A

BP and CP Area

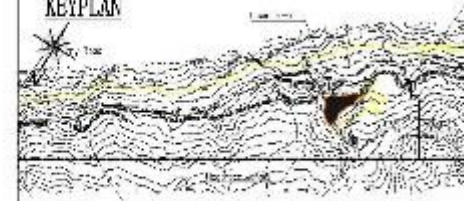
Adit-1 Portal

Access Road to Adit 1

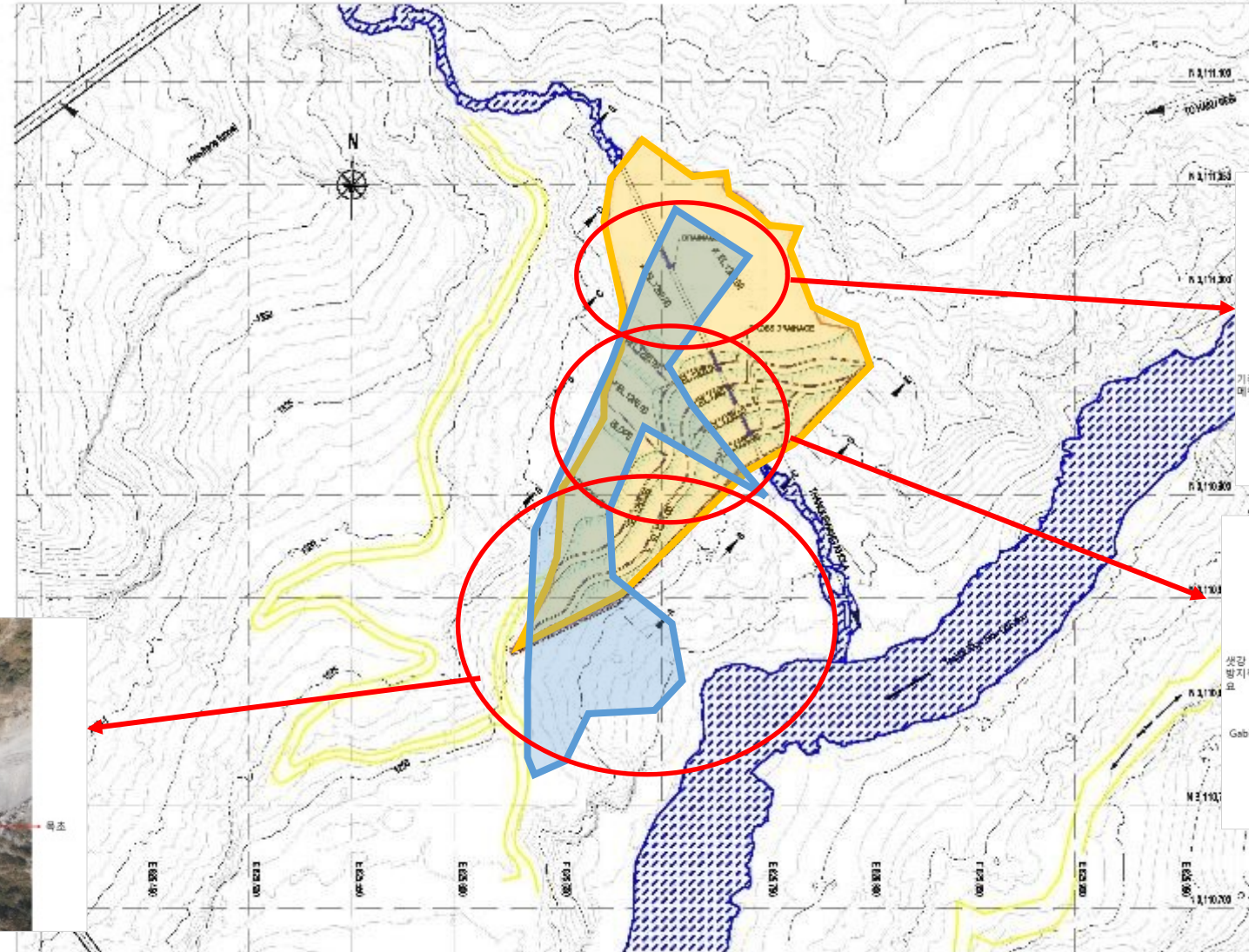
Current
Disposal

PLAN VIEW 1:2000

KEYPLAN



- TO L
1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DESIGN AND CONSTRUCTION SPECIFICATIONS.
 2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DESIGN AND CONSTRUCTION SPECIFICATIONS.
 3. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DESIGN AND CONSTRUCTION SPECIFICATIONS.
 4. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DESIGN AND CONSTRUCTION SPECIFICATIONS.
 5. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DESIGN AND CONSTRUCTION SPECIFICATIONS.
 6. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DESIGN AND CONSTRUCTION SPECIFICATIONS.
 7. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DESIGN AND CONSTRUCTION SPECIFICATIONS.
 8. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DESIGN AND CONSTRUCTION SPECIFICATIONS.
 9. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DESIGN AND CONSTRUCTION SPECIFICATIONS.
 10. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DESIGN AND CONSTRUCTION SPECIFICATIONS.
- Legend:
- low 2 section
 - Slope
 - Gully
 - Stream
 - Auto. Road



FOR APPROVAL



The Disposal area reaches the river boundary



Need to remove grass and soil

Need to
prevent
contaminati
on of the
valley water

Gabion

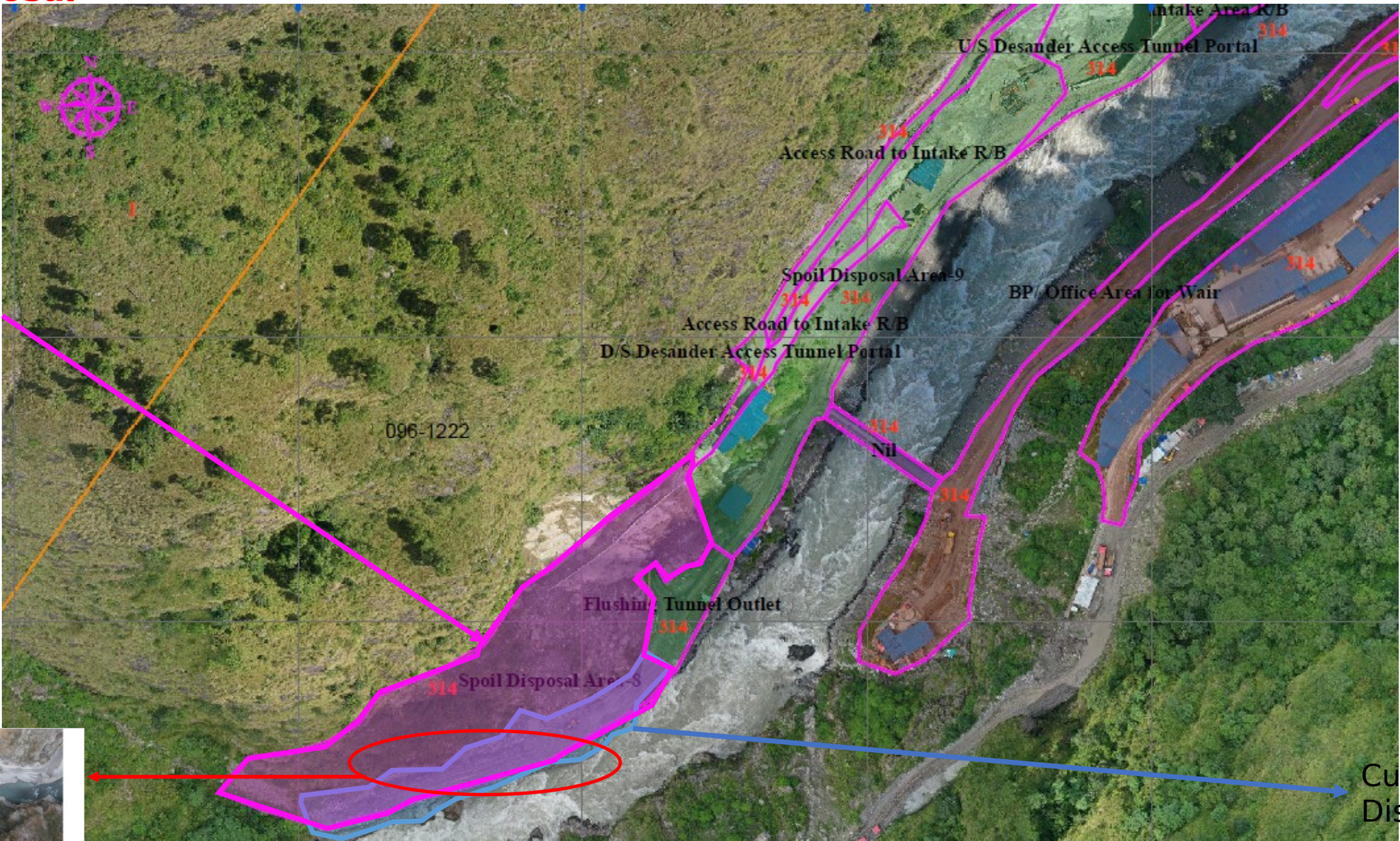


Filling the
existing
valley



Disposal
8

NWEDC



Muck is
expected
to be
swept
down
during
the rainy
season



| No. | OE Comment |
|-----------|---|
| DISPOSAL1 | <ul style="list-style-type: none"> - Need to take measures against unauthorized disposals on the upper river side - Need to prevent contamination by access load for bridge pier construction |
| DISPOSAL2 | <ul style="list-style-type: none"> - Check the disposal area boundary and remove the grass |
| DISPOSAL3 | <ul style="list-style-type: none"> - Reinforcing the part of The Disposal area reaches the river boundary by the lower retaining wall, etc. - Consider the landscape - Check the border for disposal area with trees, and remove trees and soil when using the part |
| DISPOSAL4 | <ul style="list-style-type: none"> - Need to take countermeasures against the upstream unauthorized disposal - Check the border for disposal area with trees, and remove trees and soil when using the part |
| DISPOSAL7 | <ul style="list-style-type: none"> - The act of blocking the valley is difficult to accept for environmental reasons - Additional disposals after removing trees and soil (to preserve the soil) - Since there is soil, it is necessary to check the disposal settlement - Securing access roads nearby private houses - Retaining walls are needed to prevent contamination of the valley |
| DISPOSAL8 | <ul style="list-style-type: none"> - Need to prevent sweeping in areas by strong flow rate - Preventing damage from floating matter by cleaning dam construction site |

- Need to check disposal natural line
- Need information of original ground line
- Report of disposal dumping situation
- Drainage Plan
- Gabion is not appropriate for areas in contact with river water
- Disposal should be piled it up from the bottom one by one or dumped on the road after installing the lower retaining wall